

## ALUMNI DRIVE FOR DORMITORIES FUND WILL START SOON

**Alumni Council Votes For The  
Appointment of Drive  
Committee**

### WANT MILLION DOLLARS

**Would Make Possible Erection  
Of Ten Additional  
Dorm Units**

At the 118th meeting of the Alumni Council, which was held January 25 in Walker Memorial, a definite start was made on an Alumni Dormitory Fund drive.

Voting unanimously, those present authorized the appointment of a committee of five to co-operate with the class secretaries in an endeavor to raise \$1,000,000. This amount would make possible the erection of ten additional dormitory units housing forty men each. The committee will be appointed immediately by Colonel Charles Hayden '90, president of the Alumni Association.

**Professor Hamilton Speaks**  
Prior to the vote Professor L. F. Hamilton '14 spoke to the Council concerning the necessity for additional dormitory facilities. He also spoke on the advantages of student control of the dormitories.

Henry A. Morss '93, assistant treasurer of the Institute, told how his class ran its campaign for the newest dormitory addition, which was presented to the Institute by the class of 1893 last year. Thomas B. Booth '95, president of the Association last year, also spoke in favor of a campaign for new dormitories, and a letter from President Hayden was read urging immediate action.

Other reports at the Council meeting included a statement by the secretary-treasurer to the effect that there are now 6088 paid-up members in the Association, as compared to 5589 a year ago. He also announced the authorization of two new local clubs at Columbus, Ohio, and Utica, New York.

## METROPOLITAN SAFE SAYS SPOFFORD '93

**Metropolitan Safer Than Paris  
Grand Opera House**

As a result of a thorough inspection of the Metropolitan Theatre and its foundation, Professor Spofford '93, proclaims the building perfectly safe in a letter to the theatre management. This inspection is the result of a recent rumor that the building was unsafe.

At the request of the theatre management, Professor Spofford made a personal inspection of the exterior and interior of the entire building.

**Foundation on Firm Ground**  
"This building is located on the original peninsula, and the walls and columns bear directly on firm ground and not on wooden piles. I found not the slightest indication of settlement, of defects in construction in any respect.

"The building as a whole seems particularly well planned for the safety, convenience and comfort of its patrons and in these respects I consider it superior to such notable buildings as the Grand Opera House in Paris and the Metropolitan Opera House in New York."

## DEPUTATION PROVES POPULAR AT BEVERLY

In a clipping taken from the Beverly Times which was recently received by the T. C. A., the paper praises the work of a deputation made a few weeks ago to the Parish House of that city.

After describing the program and procedure of the deputation, the paper goes on to say that the team from Technology succeeded in making a deep impression on the audience in a short program. Whether the program was of sport or religious talks there was keen interest displayed, and the boys of the community should feel the influence of the visitors for a long time.

This is a typical deputation, a similar one being sent almost every week. In addition to the visits of groups, Mr. Shotts has been making several talks himself during the past few weeks.

## Roxbury Is the Scene Of Next Clubs Concert

Next term the Musical Clubs will give their first concert on Tuesday, February 9, the day following registration. A concert and dance has been arranged under the auspices of the Order of The Eastern Star of Roxbury to be given in their large new hall in Roxbury. As there are many young people connected with the organization, the affair should prove very enjoyable.

All musical club men are asked to make a note of this so as not to forget the date, Tuesday, February 9.

## PAST INSTRUCTOR TO STUDY ABROAD

**Prof. Dawes of Harvard, Former  
Institute Man, to Study  
Cable Development**

Chester L. Dawes '09, assistant professor of Electrical Engineering at Harvard University, will go abroad February 10 to study the European developments in the manufacture of electric cables. Professor Dawes has specialized on electric cables and the causes and prevention of breakdowns, which have in the past caused considerable interruption of service.

Dawes prepared for the Institute at the Souverville High School, and graduated from Course VI with the class of 1909. Following this he served as an instructor in the Physics and Electrical Engineering departments of the Institute until 1911, after which he went to Harvard as an instructor. During 1913 and 1914 he served as a professor of Electrical Engineering at Annapolis, and then went back to Harvard. In 1919 he was made assistant professor of Electrical Engineering at that institution, which position he now holds. Besides this he has been connected with the evening division of the Franklin Union Technical Institute and has been the head of the industrial electricity course there since 1909.

A paper will be presented by him before he sails, on "Ionization Studies in Paper Cables," at a meeting of the A. I. E. E., in New York. Professor Dawes has written a considerable number of books on electrical engineering and other scientific subjects, and is considered an authority on cables and insulation.

## ENGINEER'S CAMP MOVED TO VIRGINIA

**Summer Training Will Be Held  
At Fort Humphreys**

Summer camp for Engineer R. O. T. C. men will be held at Fort Humphreys, Virginia, according to a bulletin just issued by the War Department. For some years past, the camp has been conducted at Camp Devens, Massachusetts.

Fort Humphreys is situated on the Potomac River twenty miles from Washington, D. C., in the center of a section of a great historical interest. The camp is three miles from Mt. Vernon.

Since the war, this has been the site of the Engineer School, and none but Engineer personnel are stationed there. It is expected that students from all eastern technical schools will be at the camp at the same time. The date for opening camp is undecided at present.

Camp Devens met with considerable dissatisfaction among the students, due to its close proximity to Boston. This change of the Engineer camp from Ayre will dissipate the dissatisfaction of the nearness to Boston.

As Camp Devens was the only camp in the vicinity of Boston, this change will make the nearest camp to the Institute, the Long Island camp of the Air Service squad.

## ALDRED LECTURER TREATS CHEMICAL GROWTH FROM '81

**Slow Process In Development  
of Chemistry Is Told  
By Wilder '91**

### ADVICE TO GRADUATES

**Technology First Institution to  
Develop Chemical  
Engineering**

"Chemical Development and the Graduate" was the subject chosen by S. W. Wilder '91 for his Aldred lecture given in 10-250 last Friday afternoon. He outlined the development of Chemical Engineering from 1881 up to the present day, and offered suggestions for the graduate about to enter the field of industry.

Mr. Wilder stated that his interest in chemistry developed from an early interest he took in his father's paper mill. His father as well as many other progressive manufacturers utterly deplored the lack of chemists in industry. Progress began to develop in 1881, and it was soon found that chemistry and engineering should go hand in hand. "Due to the number of conservative manufacturers, the investigators only scratched the surface as far as a chemical development was concerned. Big business was non-existent. The majority of concerns did their business by the 'rule of the thumb' method. The chemist had no program of scientific development."

**Slow Development**  
Soon it was learned that chemists and scientific men were not dreamers, but that they were helpful if kept in their proper places. Development was slow in this country, but considerable development occurred in Germany. Technology was, however, the first institution that opened a course in Chemical Engineering. The Federal Polytechnic Institute in Switzerland followed immediately. In the decade ending with 1900, "this country was passing through a transitional period in the development of Chemistry. Slowly but surely the old 'rule of thumb' method was giving way. This decade was the passing of an old order of a process of development that began with the Civil War. By scientific research the bond between organic and inorganic chemistry was

(Continued on Page 4)

## OUTING CLUB LEAVES ON ITS ANNUAL TRIP

**Party Plans to Stay at North  
Woodstock, New Hampshire**

A party of eight or ten members of the M. I. T. Outing Club will go on their annual winter trip to North Woodstock, New Hampshire on Saturday, January 30. The Party will stay at the Agassiz Cabin of the Dartmouth Outing Club.

The cabin is in the heart of the Franconia Range of the White Mountains. Within striking distance are Mt. Moosilauke, Lost River, The Old Man of the Mountains, the Flume, Mt. Lafayette, and other peaks of the range inviting the party to snowshoeing skiing and mountain-climbing. Final and complete details of the trip will be announced later by the club.

## CORPORATION XV TO LEAVE ON SUNDAY

Corporation XV, following its usual custom, will make its annual mid-year vacation trip. Leaving South Station Sunday evening they will go to Fall River and from there to New York by boat.

During the party's three day stay in New York, three trips have been scheduled as follows: Bell Telephone Research Laboratories, Bush Terminal, Hudson Vehicular Tunnel, the Colgate plant in Jersey City, offices and press room of the New York Times and the Hell Gate Power Station. A trip to the New York Stock Exchange will also probably be made.

Twenty men are expected to make the trip from here, and the party will be augmented by other students in New York who have decided to meet the party there.

## WEEKLY RELIGIOUS SERVICES ARRANGED

Following the receipt of several requests during the past term, G. J. Leness '26, Manager of the Meetings division of the T. C. A. has made arrangements for an informal religious service once a week throughout the coming term.

Meetings will start either February 10 or 11, and will probably be held in some room in Walker, although this point has not been decided as yet. Services will be held during the first noon hour, at 12:35 o'clock, and prominent ministers or business men will be secured for the affairs.

Arrangements for the informal chapel services are in charge of a committee comprising R. W. Head '26, chairman, C. A. Harrison '26, S. W. John '26, J. H. Wills '26, C. C. Shotts, and W. M. Ross, the latter two secretaries of the association.

## SENIORS SHOW GAIN IN THEIR PHYSIQUE

**Physical Condition Not Harmed  
By Four Years At The  
Institute**

As a result of the physical examination for Seniors introduced last year, the Medical Department has tabulated a list of statistics. The purpose of this examination for Seniors is to determine whether or not the Technology man's physical condition has been affected by his work at the Institute.

Last year 412 Seniors were examined out of a class of 686. These results have been compared and the men show a marked improvement in their physical condition. The average gain in height in the class was one-half inch, while the average gain in weight was five pounds. Ninety-eight men entered with defects. After four years of study, only 79 were in that condition. On admission 17 were found to have renal disorders, and after four years only four were found to have this disorder. Five cases of high blood pressure developed among these men. The vision of the men was apparently improved, as at entrance 24 were found to have defective eyesight, while only seven had this trouble upon graduation. The number of cases of heart trouble remained unchanged. On admission 10 men were found to have herniae, but seven of these had been relieved at graduation.

### Examinations Often Required

The Medical Department has been interested to note, that out of that same graduating class, 106 men asked for copies of their physical examination to be used in obtaining a position. A great many industries require a physical examination of all men entering their employ. Due to this fact, and due to the advisability of obtaining records for comparison the Medical Department has introduced these examinations.

It is the opinion of the Medical Department (Continued on Page 4)

## A. W. MORASH HEADS INTERNATIONAL TEST

**Instructor in E. E. Department  
Conducting Radio Test**

Arthur F. Morash, an instructor in the Electrical Engineering department at the Institute, is conducting radio tests in connection with the international broadcast program this week at a specially constructed station on Baker's island, assisted by Watson Kownaski, radio engineer.

The set which is being used is a seven tube super-heterodyne specially constructed by Mr. Kownaski, in conjunction with Mr. Morash. Directional antenna systems designed particularly to obtain the maximum results from the European stations have been installed along with a specially designed counterpoise.

Thus far the conditions for reception have been poor, according to Mr. Morash, and it is hoped that the atmospheric confusion will clear up before the week is over.

Monday night their efforts to pierce the veil of static were rewarded with success for a few minutes when 7 EAJ, Madrid, Spain, came through with greetings to the American Continent. Other European and South American stations were later logged but with little success because of the code and static interference.

## TECHNOLOGY WILL SHARE DONATION FOR OIL RESEARCH

**\$500,000 Given By Rockefeller  
And Universal Oil Com-  
pany of Chicago**

### WILL LAST FIVE YEARS

**To Be Shared by Technological  
Institutions of Renown  
In United States**

Petroleum research at Technology will be facilitated in the near future by the gifts of John D. Rockefeller and the Universal Oil Company of Chicago of \$250,000 each to finance a broad gauge program of fundamental research along lines of importance to the oil industry.

The program of research is to be initiated and fostered under the general direction of the American Petroleum Institute. Through these gifts \$100,000 a year for five years is available to the technological institutions of the country, nor is it unlikely that other companies in the industry will still further extend the donations.

### Fellowships Given

It is expected that many fellowships will be given from these funds to enable graduate students to do research along the lines desired. The initiation of this program emphasizes the realization on the part of the oil industry of the necessity for a larger amount of fundamental research as the basis for its development.

Technology may be expected to share largely in the gifts for it is already in a leading position in petroleum research work. Professor W. F. Jones '09, of the Department of Mining and Geology, is one of the country's foremost experts in the geology of petroleum.

### Has Carried on Intensive Research

The Chemical Engineering department has carried on an intensive program of petroleum research, particularly in the fields of distillation and lubrication. Much of this work in the Research Laboratory of Applied Chemistry has been financed by the various large oil companies. During the last three years the department has lost three of its Faculty members and many of the younger members of its staff who have gone into research and development in the oil industry.

## PROFESSOR BORN TO MAKE WESTERN TRIP

**Will Lecture in California  
Before Returning**

Professor Max Born of the University of Göttingen who will complete his lecture course at Technology on January twenty-second, has been invited by a number of colleges in the United States to lecture before returning to Germany.

He will visit and lecture at the Schenectady Works of the General Electric Company and then go to the University of Cornell for several days. Niagara Falls, Chicago and the Grand Canyon of the Colorado are included in the itinerary but Professor Born will not deliver any lectures until he arrives in Pasadena on the ninth of February. After a two weeks stay in that city, during which he will speak at the Norman Bridge Laboratory the noted physicist will be the Hitchcock lecturer at the University of California at Berkeley.

Starting eastward, the first stopping point will be the University of Wisconsin and then coming to the East coast, Professor Born will lecture at Columbia and Princeton. He will address the American Philosophical Society at Washington on the twentieth of March and on the twenty-fourth will leave for Germany. Mrs. Born is accompanying her husband on his lecture trip.

## CALENDAR

Friday, January 29

1:00—Meeting of Tech Show stage dept., Tech Show office.  
6:00—Tech Show Orchestra Rehearsal, North Hall, Walker.  
6:30—Masque dinner meeting, Faculty dining room.  
7:00—Tech Show meeting of cast, chorus, ponies, and orchestra, Walker gym.  
8:00—American Welding Society meeting, room 3-330.

Saturday, February 6

6:00—Tech Show Orchestra rehearsal, North Hall, Walker.  
6:30—Boston Bacteriological Club dinner meeting, Faculty Dining Room.



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Official News  
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## BETTER PREPARATION

IN THE past few months, several Alumni have stated that the Institute should take steps toward a more careful selection of its incoming classes. They have suggested that each applicant for admission be subjected to close scrutiny in the hope that the quality of Technology graduates and the popular expression of quality, reputation, may be enhanced. Our authorities might consider a modification of the time-honored entrance system that Yale will inaugurate with its class of 1930. Yale proposes to abolish the fall examinations sessions completely, basing their estimate of the candidates' scholastic worth solely upon the results of the spring examinations of the College Entrance Examining Board.

The demand from our Alumni was rather one for more careful selection on the basis of personality than scholarship, but any plan for accomplishing their aim will ultimately result in an emphasis upon better preparation on the part of now men. Why, then, can not a start be made in the right direction by this more stringent rule regarding entrance?

The adoption of such a measure will bar the type of high school and preparatory school graduate who, although unprepared for the College Board examinations, attempts them with the full knowledge that he has another chance. He can "cram" for the fall examinations under the direction of some far-seeing tutor chosen for his ability as a prognosticator of examination questions rather than for his ability as a teacher. There will be fewer failures during the first two years of the Institute course, often the direct result of poor preparation.

## THE LATEST ART MOVEMENT

FOR the past few years we have been watching with interest the increasing "grand manner" of the movie houses. We have hoped in vain for a return of days when we could see a moving picture in an hour and a half and go home without the torture of sitting through three vaudeville acts, a news reel, a cartoon, a comedy and an atmospheric prologue. Within our memory the length of film describing its production was a standing invitation for a joke. Alas, the time for flashing up the names of the producer, director, writer, adapter, sub-titler etc. etc. is so incomparably small compared with the other mass of wasted time that it is no longer noticed.

If the quality of these additions were reasonably good they could be better tolerated. As it is the prologue consists of material on the intellectual level of a flag draped singer pouring forth "Over There." The overture consists of an orchestra leader's idea of cleverness; the latest to come to our attention is "Home Sweet Home," played as it would be in Russia, Italy, Vienna, and China; we have also heard a pipe organ imitation of a singer singing to violin obligato.

As to the vaudeville acts, the most recent "horrible example" we have seen consisted of a middle aged pair singing "Marcheta" with rasping voices and heavily hoofing a ballroom waltz between choruses. Boston in our mind is associated with poor vaudeville, at any rate.

We are still watching the increasing "grand manner" of the "shifties," but at present with more disgust than interest.

## MEANINGS THAT WERE NEVER MEANT

FOR sturdy valorous resistance to punishment, words deserve a hand. Noah Webster would hardly recognize half of his proteges today. "Realism," says he, "Adherence to the actual as presented in real life and nature." Realism as it is represented by modern writing—modern fiction—has the same partial and deceptive connection with real life that medieval astrology has with the science of astronomy. It is a collection of half-truths and distorted truths that are more deceptive than lies. What is the realism of "The Naked Man" of "Winesburg, Ohio" but distorted truth? And the Marks and the Dunton type of author comes forth with novels of college life as it never was; and in spite of their efforts will never be. On the other hand, to read of the neurological peculiarities of the puppets of popular fiction and the unnatural life they manage to live, leaves some of us with a kind of consciously superior feeling toward what we conceive to be the average person and the average person's follies. For some, there exists much of satisfaction in this sort of thing, but there is no realism in it, and very little worth of any kind.

But since the lexicographer departed this life some years ago, perhaps we can take liberties with his definitions and propose—"Realism: That quality of art and literature which presents life as it sometimes is, and Nature as she could never be."

## Foundations in Education Will Become Smaller

### Head of Carnegie Foundation Believes Endowments Changing Form

President F. P. Keppel of the Carnegie Foundation expresses his belief in the Yale News that the number of large foundations is not likely to be greatly increased in the future. He bases his belief on the fact that those which now exist are the products of an economic and financial situation which has already changed. Income taxes, death duties, and changing standards in the business and industrial world have already been effective in the limitation of the number of excessively large fortunes.

However, endowments for specific purposes with much smaller capitalization are likely to increase very rapidly in number, and there will probably be a large increase in the number and in the capitalization of community trusts.

"The foundations are largely responsible for a new grouping, closely related to the universities in personnel and program, but are usually independent of any particular institution. Research in economics, for example is largely in the hands of such Institutes as they are called. In science the National Research Council has itself become a foundation through a large grant from the Carnegie Corporation.

Although individual institutions have little to say as to the disposal of such funds, the contributions of the foundations are more important than ever. It is probably no exaggeration to say that any research problem which has the endorsement of a representative group of scholars can find financial support from one of the many foundations. The researches thus helped cover a very wide range and include such practical questions as the teaching of foreign languages, and the organization of professional schools of medicine and engineering. Foundations support nearly fifteen hundred fellows annually, the great majority of whom become the teachers of the next generation.

"The dangers of foundations arise not from the concentration of wealth or in conservatism or radicalism but in the belief of its officials that it is their duty to direct public opinion. However, the stability of all foundations rest on public opinion and their freedom from taxation. At any time that such an institution became offensive to the community the offender could be taxed out of active existence. From the very organization it is practically impossible for the purpose of the foundation to be betrayed."

President A. Lawrence Lowell of Harvard, in the Atlantic Monthly, states that the preparation and grading of examinations is an art which is still in its infancy in this country. If the examination does not give a fair test of the proficiency of the student, either the teaching or the examination is defective. If the examinations were properly framed, the student would work for the honor of high marks for it would show not only diligence but intelligence and ability. A certain standard should be set for the college which should not vary with the instructors. He says, "To make a good examination paper—requires much time and thought; but upon no part of the educational system can time and thought be better spent."

The Amherst Student states that "Satan himself never invented a more wasteful, irrational, and inadequate method than the usual college exam." It suggests that the true—false test advocated by Dr. Ben D. Wood of Columbia be given a fair trial.

Dr. Wood's plan consists of carefully framed statements of the problems in question, some of these are false approximations and only one of each set is correct. The student is to mark the correct one. This method saves writing long answers, covers more ground, and eliminates the personal equation in the correction of the papers.

Another suggested method, claimed by its supporters to be an ideal democratic system, has been proposed, especially in the state universities. One half the class is given a mark corresponding to P, one quarter F, and one quarter is given H's or C's.

state. The characters are life-like in portrayal and talk humanly. One may say a lapse on the part of an author noted for his irony.

The company carried on in the spirit of restraint, without trying for dramatic climax, as if they, too, sensed the light mood George B. had when this, a comedy of smile and twinkling eye, was written. The more credit theirs! Lady Cicely Waynflete, as acted by Agnes Scott, easily won the admiration of the audience, for the masterful portrayal of the "Meddlesome Mattie," getting into trouble, getting out without harm, and a few thrills in so doing. Sir Howard, carefully done by Horace Pollock, was a good picture of the magistrate, worried by the actions of the lady, and maintaining the dignity of his office a few thousand miles from his bench.

By way of keeping the action and Shaw's words together, it might be better to keep the rank of the naval officer straight (a three stripe is a commander). To match with his ribbons the date of the reading of the date of the letter could be dropped; this, too, applies to the wearing of 1911 automatics by the crew of the gig. To emphasize this, the ladies of '99 did not wear straight-line hipless dresses or frocks of 1925.

The audience was there to enjoy the evening, the play and the acting, and did. The evening was mild, the play was excellent, and the acting better than usual. What more does one want in the finest little theater we have ever entered.

S. J. C.

## As We Like It

### CAPTAIN BRASSBOUND'S CONVERSION

To know the other side of Shaw, or the side needing no prologue to bridge the gap twixt the human and the intellect, is a treat. Also, to see a play put over well by a group, harried by playing one thing, rehearsing a second, and learning a third, is a delight.

Put the plot first. African west coast, Scotch medical missionary, smugglers, natives, English travelers, the American navy. The travelers drop in on the missionary; a trip escorted by the smugglers under Captain Brassbound; the British magistrate learns he is charged with the murder of Brassbound's mother, sister-in-law to Sir Howard; the American navy does the chivalrous act, gunning the natives, holds trial, and retires without profit. Brassbound proposes to the meddlesome Lady Cicely, is rejected and goes south.

Shaw is humorous, without putting the hooks in too deep, with church and

Stephen McKenna's newest novel is also his strangest—"The Oldest God," in which the members of an English house party vote for a return to Arcady and the rule of Pan, with dire and utterly unexpected results.

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## Examinations Are Criticized From Different Angles

### Students and College President Express Opinions on Their Value

At this time of the year and in June, examinations and grades become the center of interest of the college world. The Ohio State Lantern has developed some aspects of this semi-annual rush in a synopsis of "Grades," a college drama.

Scene 1—A college dormitory anywhere.

Joe Student, boning for finals, is seated on the right busily reading Sartor Resartus in preparation for an English exam. Alarms and excursions back stage. Somewhere a phonograph plays Yes Sir! She's My Baby.

Scene 2—Same.

An alarm rings, Joe Student drapes his clothes about him and dashes through the half-light to an early morning examination. He writes and writes, throwing back at the instructor all he can remember of the semester's work. Then he hands in his paper and dashes to another final.

The instructor reads the paper puts a grade on the card Joe Student, more or less carefully, perhaps, and left with him. In some cases, we are told, the product of Joe's mental agony is tossed into the waste basket but the mark is put on the card just the same. The card is mailed and Joe Student after reading it is either sad or glad.

To the Lantern examinations appear to be foolish but very necessary absurdities. Upon them depend degrees and all other scholastic honors. Grades for equal efforts and knowledge. There are moreover variations in which depend upon the professor or the course. The distinction often goes to those who have done less work, are less conscientious, and have no exceptional ability. "If we must have finals why not a uniform system of grading?"

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# FROSH BASKETBALL TEAM WINS 27-26

## FROSH PUCKSTERS TAKE ON ANDOVER

**Freshman Hockey Team Opens Season With Game At Andover**

Technology freshmen pucksters will get under way on February 6, for their first game of the season against Andover. The prep school is not as strong as last year, but is coming along in fast style. Outside of the Institute, little is known of the Institute sextet, so the school boys may be a little surprised next week at the frosh work.

On Friday, Coach Bill Stewart will pick the squad that will represent the yearlings at Andover. No definite line-up has been formed yet, and the competition for places has been exceptionally close. Stewart however has picked a temporary team which consists of Crosby and Palmer at wing, White at center, Foster and Cullinan on the defense, and Peterson at the cage. Horan and Tobin also have shown up well at the forward positions, and Richardson has done some very good work at goal.

Bill Stewart's building a lot of hope on this year's squad and he claims that it is one of the fastest outfits in New England frosh hockey. The daily scrimmage with the Varsity has helped the new men immeasurably and should be a big factor in getting the men ready for their coming games.

Attention is called to the sport followers at the Institute to two events which are scheduled to be played during the week of vacation. On Saturday, February 6, the boxing team has its first meet of the year with McGill University in the Hangar Gym and on the same date the freshman hockey team goes up to Andover to meet the prepsters.

## Frosh Team Shows Great Form As St. Johns Meets First Defeat of Season

Playing their hardest and best game of the year, the Cardinal and Gray under the direction of Berny Morgan, outscored the heavy powerful moving St. John five by a bare margin of 27-26 in the hangar gym Saturday. It was indeed a hot battle and every man on the floor was in there fighting for his team during every minute of the fray.

It was the first defeat chalked up against the Saints so far this season. In fact there was every reason in the world that the string of victories would remain unbroken, that is up until the last six minutes of play, when the frosh succeeded in locating the basket and overcame the lead of the Saints and held them until the final whistle blew.

Both teams played real basketball every minute of the four ten minute periods. Both aggregations had a splendid defense as well as displaying a fine brand of passwork. St. Johns played a whirlwind game all the way through and Berny Morgan's charges in playing their best game of the season kept the score quite close all the way.

At half time the score was 18-11 in favor of the visitors and they were still going strong. They were quite strong until the last six minutes of play when baskets by Allen, Johnson and Captain Brockelman knotted the count, the score being 25 all. Conti was fouled and succeeded in counting twice on two tries from the foul line. A minute later Clancy of the Saints was fouled, but the latter succeeded in registered only one out of two from the chalk mark. This left the score 27-26 in favor of the frosh. The frosh played safe until the final whistle blew. Clancy, O'Connor and Walsh bore the brunt of the attack for the visitors. Luke Bannon, former Technology coach, handled the whistle in fine style.

| Summary                               |    |    |    |   |
|---------------------------------------|----|----|----|---|
| M. I. T. '26                          | FG | FP | TP |   |
| Johnson, lf                           | 4  | 0  | 8  | 5 |
| Conti, rf                             | 1  | 3  | 5  | 8 |
| Allen, c                              | 3  | 2  | 8  | 5 |
| Brockelman, rg                        | 3  | 0  | 6  | 6 |
| McClintock, lg                        | 0  | 0  | 0  | 0 |
| Total                                 | 11 | 5  | 27 |   |
| ST. JOHN'S                            |    |    |    |   |
|                                       | FG | FP | TP |   |
| Clancy, rf                            | 3  | 1  | 7  | 7 |
| O'Connor, lf                          | 2  | 1  | 6  | 6 |
| Walsh, c                              | 2  | 1  | 5  | 5 |
| Lemane, rg                            | 3  | 2  | 8  | 8 |
| Tierney, lg                           | 0  | 0  | 0  | 0 |
| Walsh, lg                             | 0  | 0  | 0  | 0 |
| Total                                 | 11 | 4  | 26 |   |
| Referee: Bannon (New Hampshire State) |    |    |    |   |
| Timer: Kelly.                         |    |    |    |   |

## SWIMMERS MEET WILLIAMS FEB. 13

**Meet With Purple Will Be Last Home Meet of Season For Institute**

In their final home appearance of the year the Cardinal and Gray swimming team takes on the Williams College pool aggregation for the opening meet of the new term on Saturday, February 13, in the Cambridge Y. M. C. A. The Institute swimmers have a wonderful opportunity to avenge their defeat last year at the hands of the Hill boys. At that time the Technology team was without the services of Johnson and Woods and were forced to take the short end of a 45 to 14 score.

This year's outfit boasts of a much more experienced, more balanced, and more talented array of swimmers than which opposed Williams last year. Their showing in the first two meets stamps them as comparable with the best teams that Technology has ever produced. With an abundance of strength in every event, it will take an exceptionally strong Williams team to down the Institute swimmers next term.

From Williamstown comes the report that the athletic teams, the swimming team included, are holding practice sessions regularly despite the fact that the little Berkshire college is in the midst of the annual mid-year examinations.

With the start of the new term, freshmen at Williams became eligible for the Varsity and report has it that a star has been uncovered in Schott, the leading yearling swimmer.

Encouragement is offered to the Institute freshman swimmers by the result of the Andover-English High meet. Andover defeated the English High swimmers 54 to 8, practically the same score by which they defeated the Technology yearlings. This fact indicates that the meet between the Institute Freshmen and English High will prove very close and interesting.

Incidentally, that boxing meet with McGill is the only at home contest scheduled for the leather pushers, and those anxious to see them in action this year should stop around to the Hangar a week from Friday.

## BASKETBALL TEAM ENCOUNTERS N. E. IN RETURN GAME

**Return Game With Northeastern To Be Held on Boston Y Court**

**TRIP TO N. Y. FOLLOWS**

With the presence of examination week, the basketball team will suspend practice until the beginning of the new school term.

A week ago tomorrow Coach McCarthy's court proteges decisively defeated the Red and Black quintet representing Northeastern University by the score of 35-22. This marks the second straight victory for the Cardinal and Gray, Rhode Island State having gone down to defeat at the hands of the Engineers, the Saturday previous.

Taking into consideration the number of games played so far this season, Coach McCarthy's men have broke even in the number of games won and lost, having emerged victorious on four occasions and having been defeated as many times. The Cardinal and Gray defeated in order, New Bedford Textile, Lowell Textile, Rhode Island and Northeastern. On the debit column are Dartmouth, Tufts, Brown and Harvard. In each of the last three affairs the final score was decided by an exceedingly close margin, and each of these games were heartbreaking ones to lose for in each case the outcome hung fire until the final whistle was blown.

New York Trip Soon  
On Saturday, Feb. 13, Northeastern will play hosts to the Institute aggregation.

gation in a return engagement in the Huntington Avenue gym and it promises to be a close hard fought tussle as the boys across the river will be out for revenge.

Following the game with Northeastern, the team will take a five day trip to Brooklyn where they will play Pratt Institute and the Crescent A. C. and then to Montclair, N. J., where they will play the Montclair A. C.

After the trip, the team will return home to play the University of New Hampshire on Feb. 27, concluding the season with a game with Holy Cross in the Hangar gym on March 6.

The competition of the New York State branch of the Intercollegiate Glee Club Association will be held in Rochester. The winner of this competition will be chosen as the representative of that section in the national competition to be held in Carnegie Hall, New York City, New York.



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## Leness Leading Technology Entry In K. of C. Games Held On January 30

With George Leness entered in the "600," the Institute track forces will make their strongest bid in the annual K. of C. games held in Mechanics Hall on January 30. There are several other Cardinal and Gray men entered in the meet, but none appear to have the opportunity to come through as does the engineer captain.

Leness will meet some of the best middle distance men in the country in the Casey games, but is given a better than even chance of coming through with a win. There are three other high class men entered in the special "600" that Leness will have to defeat, and these men will make it necessary for him to show his best speed.

With Helfrich, Dodge and Red Haggerty entered in this event, some of the keenest competition of the evening can be expected. All three of these men can be counted upon to run a race that will be nearly perfect. Helfrich is considered just about the class of middle distance men in the country, and the "600" is his favorite distance.

Dodge and Haggerty can be counted on to run a race that will make the best of them step to win. Haggerty has been rounding rapidly into form in practices at Harvard and Coach Farrell, the Crimson mentor, is expecting great things of him this year.

The Institute team will also be represented in one of the several relay races that the K. of C. management has listed. As was the case last year, the Institute relay team will run against Brown. This should be a corking race as the Institute forces will be out to avenge the defeat they received at the hands of the Brown team last year.

It was only a lucky break that gave the victory to the Brunonians last year, when an Engineer runner fell taking one of the sharply banked

curves of the Mechanics Hall track. After the showing that the Institute relay teams made against Harvard, there is a strong likelihood that the Brown runners will train in this event.

Several other crackerjack relay races are also on the card. Tufts will take on the Northeastern squad in one, a K. of C. team will meet the B. A. A. team, Harvard will meet Holy Cross, Boston University will take on Mass. Aggies, and Boston College will take on Maine.

The dash events, especially the 40 yard dash, will bring together some of the classiest sprint men in the country, an dalso one of Europe's best. Houben, who defeated Paddock and Murchinson when they toured Europe last year, will be entered and will have Frank Hussey, the B. C. star, and Al Miller, Harvard star, as his most dangerous opponents.

Harvard has also entered Tibbetts and Soapie Watters in the Casey mile, one of the most attractive races on the program. Both of these men in the meets with the Institute have shown that they have the ability to furnish some high class opposition to the field that will oppose them.

## FAST SWIMMER WILL RETURN NEXT TERM

With the announcement of the intentions of Greer Armstrong to return to the Institute next term, the already bright outlook for the swimming team is further augmented. Armstrong was a dash man on the Varsity all last season and left school in June, having been away from the Institute since then.

Coupled with Grover in the 50 yard dash, he should make a good partner and between the two of them they should cop most of the points in this event.

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## ALUMNUS RECEIVES MUNICIPAL POSITION

**Louis K. Rourke '95 Appointed Building Commissioner By Mayor Nichols**

Louis K. Rourke '95, a graduate of Course I, was appointed to the position of building commissioner of the City of Boston by Mayor Nichols last Monday, to fill the vacancy which has existed since last July.

Mr. Rourke, who previous to this appointment was Transit Commissioner of the city, played quite a prominent part in the construction of the Panama Canal, and showed his ability to such an extent that he was called from that job in 1910 to become public works commissioner of Boston. Later he engaged in private engineering work until 1922, when he was appointed to the Transit Commission. He has also acted as school-house commissioner.

His new position carries with it a sizable increase in salary, and is one of considerable importance and responsibility in the engineering work of the city.

## TALKS ON RELIGION IN KING'S CHAPEL

A series of six lectures on religious subjects will be given in King's Chapel on succeeding Mondays beginning February 1. These lectures begin at 2:30 o'clock, and are under the auspices of the Lowell Institute.

The first series contains four lecture on "Religion, Its Passing Forms and Eternal Truths" is given by Alfred North Whitehead, Professor of Philosophy in Harvard University. The lectures are "Religion in Human History," "Religion and Dogma," "Matter and Spirit," and "Truth and Criticism," and will be given on February 1, 8, 15, and March 1 respectively.

The subject of the last series is "Recent Tendencies in Germany," and is given by Gustav Kruger, Professor of Church History in the University of Giessen. "In the Church" will be given on March 15, "On Theology" will be given on March 22.

King's chapel is on the corner of Tremont and School streets, and all lectures are free, no tickets are required. Doors will be open at two o'clock.

## WILDER DESCRIBES CHEMICAL GROWTH

**Technology First Institution To Develop Chemical Engineering**

(Continued from Page 1)

partially broken down by the discovery of acetylene."

Period of Industrial Progress

Scientific research had reached a high degree of efficiency, but the changes were so immediate and so radical that it was hard for the layman to accept it. Many problems remained unsolved because no one would risk his money. In spite of these obstacles the science progressed, and this country passed through a period of industrial progress and activity. Technology men were given more opportunities.

By a process of evolution, the "rule of thumb" method disappeared, and the services of one or two chemists or chemical engineers were required in all large industries.

Chemical associations and societies sprang up. One of the first was the Manufacturers and Chemists Association of America, which took an active part without compensation in all matters concerning inorganic chemistry. Other small groups arose covering organic chemistry. Now this industry is on a par with the other branches of endeavor.

## SENIORS SHOW GAIN IN THEIR PHYSIQUE

(Continued from Page 1)

partment, that physical perfection is necessary to mental success, and it is hoped that the rules of health which this department is attempting to disseminate throughout the men at the Institute, will be carried out during their future years. Seniors taking the examination offered by this department, will not only aid in tabulating future statistics, but also benefit themselves by learning how to overcome any imperfections they may have.

## WELDING SOCIETY TO HOLD MEETING HERE

"From Mine to Consumer—The Story of Anaconda" will be the title of the motion picture to be exhibited at the regular meeting of the Boston section of the American Welding Society that will be held on Friday evening, January 29 in room 5-330. The welding of non-ferrous metals will be discussed by W. E. Swift, welding engineer of the American Brass Company. The movies will tell the story of copper as it is manufactured today in a typical copper plant, The Anaconda Copper Company.

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## Notices and Announcements

### OFFICIAL

#### AIR SERVICE SCHEDULES

Schedules for next term's Air Service classes have been posted on the bulletin board in room 1-080.

#### SOPHOMORE MILITARY SCIENCE

Sophomores intending to take Military Science MS22 with the Engineer R. O. T. C. unit please see Lieut. Levy or Lieut. Moore in room 3-307.

#### U. S. NAVAL AIR SERVICE GROUND SCHOOL

There will be two lectures per week in this subject, every Tuesday and Thursday evening at 7, in room 5-226. The course will run until May 11, 1926. The next class is Feb., 9.

#### CHORAL SINGING G 58

The course in Choral Singing, G 58, which was not offered last term, will be given twice a week during the second term, from 5 to 6 on Mondays and Fridays in room 5-330. The instructor will be Mr. Stephen Townsend. Those passing this course will be credited with one General Study.

### PHYSICS LECTURE

Professor Th. de Donder, professor of Mathematical Physics at the University of Brussels, will give two series of lectures in English at the Institute during the last ten weeks of the second term, at hours to be announced later, on the following subjects:

Series I. The Theory of Relativity (ten lectures.)

Series II. The mathematical Theory of Electricity (20 lectures.)

These lectures are open to all interested.

### UNDERGRADUATE

#### T. C. A. OFFICE

The T. C. A. office will be open as usual during the examination period and the week following.

#### FROSH FENCING

All freshmen wishing to substitute Fencing for P. T. 2 should sign up with Mr. McCarthy at his office before the end of the term.

A new group will be formed on the first Tuesday afternoon of the new term in the Gymnasium, Walker Memorial at 4:30 P. M.

### AMERICAN CHEMICAL SOCIETY

There will be a meeting of the Society Friday evening February 12, in room 10-250, from 6 to 10.

### TRACK MEET TICKETS

All those wishing tickets for the B. A. A. Indoor Track Meet, February 6, should apply to the track management at the Track House.

### SENIOR PORTFOLIO

Statistics must be turned in at the Technique office right away.

### TECHNIQUE

Seniors are requested to return their proofs to Notman's Studio at once.

### B. A. A. GAMES

Through the courtesy of Mr. Albert Geiger, M. I. T. '95, a section has been reserved for Tech men and tickets can be obtained from Major F. H. Briggs, 10 High Street, Boston. The price is \$4.40 each. Applications should be made preferably by mail, with remittance, not later than February 2nd.

### T. C. A. PLEDGES

Men not having redeemed their T. C. A. Drive pledges are requested to do so at once in room 7, Walker.

### TECH SHOW

All Sophomores and freshmen connected with the Stage department should report at the Show office at one o'clock Friday.

All cast, chorus, ponies, and orchestra report in the Walker gym., Friday evening at seven o'clock SHARP.

There will be a rehearsal of the orchestra in the North Hall at six o'clock Saturday.

### R. O. T. C. RIFLE TEAM

The rifle range will be open for practise during the examination week on Wednesday, Thursday, and Friday. All varsity R. O. T. C. team members are urged to practise kneeling and standing during any available time on the above days. The range will be closed from February 1 to February 6, inclusive.

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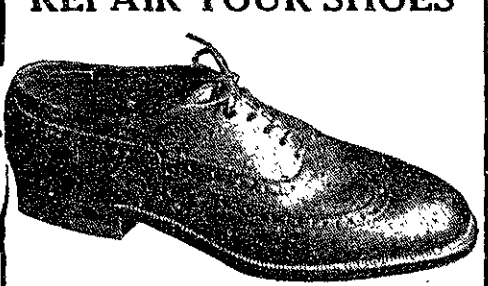
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